

AMENDMENT OF THE CLAIMS

Please amend the claims as shown below:

1. (currently amended) An imaging system, comprising:
an interlaced imaging device that produces video data from an aperture field
during a data acquisition interval in response to a data acquisition control signal;
a mirrored shaft that is linearly displaceable along an axis of the shaft for
presenting different views to said imaging device, the mirrored shaft including two or
more mirror elements affixed to said shaft, said mirror elements being mutually spaced
along the axis of said shaft, and diversely angled with respect to the aperture field of said
imaging device to define different predefined views of a scene;
drive means including an electric motor for producing linear displacement of said
mirrored shaft along said axis to change the view presented to said imaging device as the
different diversely angled mirror elements are brought into alignment with the aperture
field of said imaging device; and
control means for controlling said electric motor in response to a data acquisition
control signal of the imaging device such that interlaced video data produced by said
imaging device includes data pertaining in a series of successive data acquisition intervals
pertains to two or more different views of said scene.
2. (original) The imaging system of Claim 1, wherein said data acquisition control signal is a vertical synchronization control signal that coordinates readout of said video data.
3. (previously presented) The imaging system of Claim 2, wherein said mirrored shaft includes first and second linearly separated mirrors that are alternately in position with respect to said imaging device during successive data acquisition periods of said imaging device.

4. (original) The imaging system of Claim 1, wherein said drive means includes a rotary cam mechanism driven by said electric motor and a connecting arm coupling said cam mechanism to said mirrored shaft.

5. (original) The imaging system of Claim 4, wherein said control means continuously drives said electric motor at a speed that is in synchronism with said data acquisition control signal.

6. (new) The imaging system of Claim 1, where:
said mirror elements are horizontally angled with respect to said aperture field to define diverse horizontally angled views of said scene as the different diversely angled mirror elements are brought into alignment with the aperture field of said imaging device.

7. (new) The imaging system of Claim 1, where:
said mirror elements are vertically angled with respect to said aperture field to define diverse vertically angled views of said scene as the different diversely angled mirror elements are brought into alignment with the aperture field of said imaging device.